PATENT COOPERATION TREATY

PCT

REC'D - 8	JUN	2009
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INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference TP 1281	FOR FURTHER ACT		fication of Transmittal of International Examination Report (Form PCT/IPEA/416)	
International application No. International filing date (day/month/year)		(dav/month/vear)	Priority date (day/month/year)	
PCT/SE99/00843	18.05.1999		22.05.1998	
International Patent Classification (IPC) or national classification and IPC7 B 32 B 27/20, B 65 D 65/20				
Applicant	5 Di CD	_4 _1		
Tetra Laval Holdings	& Finance SA	et al		
 This international preliminary examination report has been prepared by this International Preliminary Examining Authority and is transmitted to the applicant according to Article 36. This REPORT consists of a total of sheets, including this cover sheet. This report is also accompanied by ANNEXES, i.e., sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications made before this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions under the PCT). 				
These annexes consist of a total of	of 2 sheets	i.		
3. This report contains indications relating to the following items:				
Date of submission of the demand		Date of completion	of this report	
18.11.1999		22.05.2000		
Name and mailing address of the IPEA/S.		Authorized officer		
Patent- och registreringsverket Box 5055 S-102 42 STOCKHOLM PATOREG-S Facsimile No. 08-667 72 88 Telephone No. 08-782 25 00			• •	

Form PCT/IPEA/409 (cover sheet) (January 1994)

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.

PCT/SE99/00843

I. Basis of the report		
This report has been dr under Article 14 are referr	rawn on the basis of (Replacement red to in this report as "originally fi	t sheets which have been furnished to the receiving Office in response to an invitation iled" and are not annexed to the report since they do not contain amendments.):
the intern	ational application as originally	filed.
the descri	ption, pages 1-8	, as originally filed,
 -	pages	, filed with the demand,
	pages	, filed with the letter of
	pages	, filed with the letter of
the claim	s, Nos	, as originally filed,
		, as amended under Article 19,
	Nos	, filed with the demand,
	Nos. <u>1-8</u>	, filed with the letter of $11.05.2000$,
	Nos	, filed with the letter of
the drawi	ings, sheets/fig 1	, as originally filed,
		, filed with the demand
	sheets/fig	, filed with the letter of,
	sheets/fig	, filed with the letter of
<u></u>	resulted in the cancellation of:	
the claim	ns, Nos.	
the draw	ings, sheets/fig	
3. This report has beyond the dis	closure as filed, as indicated in	f) the amendments had not been made, since they have been considered to go the supplemental Box (Rule 70.2(c)).

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.

PCT/SE99/00843

v.	V. Resoned statement under Article 35(2) with regard to novelty, inventive step r industrial applicability; citations and explanations supporting such statement			
1.	Statement			
	Novelty (N)	Claims	1-8	YES
	• • •	Claims		NO
	Inventive step (IS)	Claims	1-8	YES
	• ` `	Claims		NO
	Industrial applicability (IA)	Claims	1-8	YES
	2.2 4 production (= -)	Claims		NO

2. Citations and explanations

The claimed invention relates to a packaging material and a package, produced from the packaging material, for lightsensitive products. The packaging material includes at least one layer of plastic filled with 3-80 wt% mineral particles and 0.04-1 wt% carbon black. The plastic consists preferable of a high-density polyethylene or a copolymer of ethylene and propylene.

The most relevant documents cited in the search report are the following:

D1 JP 4 173 134 A

D2 EP 353 496 A1

D1 relates to a light-blocking bottle for milk. It comprises 100 wt parts polyester, 2,5-2,6 wt parts light-reflective pigment, e.g. TiO2, and 0,005-0,015 wt parts light-absorptive pigment, e.g. carbon black. The subject matter of claims 1-8 differs from the disclosure of D1 concerning the amount of mineral particles and carbon black. Also the type of plastic used differs. Regarding claims 1-8, D1 only discloses the general state of the art, which is not considered to be of particular relevance.

.../...

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.

PCT/SE99/00843

Supplemental B x

(To be used when the space in any of the preceding boxes is not sufficient)

Continuation of: V

D2 relates to a flexible material for the manufacture of liquid-tight packing containers. It comprises one or more layers of mineral filled thermoplastics laminated to one another. However, D2 mentions nothing about adding small amounts of carbon black to achieve a synergic light-barrier effect. In view of the above, D2 only discloses the general state of the art, which is not considered to be of particular relevance.

The claimed invention according to claims 1-8 is considered to be novel, have inventive step and industrial applicability.

Form PCT/IPEA/409 (Supplemental Box) (January 1994)

1 1 **-05**- 2000

Replacement sheets

Claims

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- 1. A packaging material of single multi-layer type including at least one layer (11) of plastic which, for light barrier elevating purposes, includes particles (11c) of carbon black, characterized in that the layer (11) containing carbon black also includes mineral particles (11b) substantially uniformly distributed in the compound (11a) of the layer. In a quantity between approx. 3 and 80% of the total weight of the layer.
- 2. The packaging material as claimed in Claim 1, characterized in that the compound (11a) in the mineral-filled layer (11) containing carbon black consists of a plastic of polyolefin type.
 - 3. The packaging material as claimed in any of the preceding Claims, characterized in that the compound (11a) in the mineral-filled layer (11) containing carbon black consists of a high density polyethylene or a copolymer of ethylene and propylene with a melt index between 0.5 and 5 according to ASTM (2.16 kg; 230°C).
- 4. The packaging material as claimed in Claim 3, characterized in that the quantity of carbon black in the mineral-filled layer (11) is between 0.04 and 1% of the total weight of the compound (11a).
- 5. The packaging material as claimed in any of the preceding Claims, characterized in that the mineral-filled layer (11) containing carbon black is surrounded by outer layers (12 and 13) of plastic on both sides of the layer (11), said outer layers (12 and 13) being permanently united to the layer (11) without interjacent binder or adhesive.
- 6. The packaging material as claimed in Claim 5, characterized in that the two outer layers (12 and 13) consist of the same plastic as the plastic in the interjacent layer (11).

7. The packaging material as claimed in any of Claims 5-6, characterized in that of the two outer plastic layers (12 and 13) one includes a white pigment or other white colouring agent so as to conceal the interjacent layer (11) containing carbon black, at least from one direction.

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8. A package, preferably a bottle, for light-sensitive products, characterized in that it is produced by a combined extrusion and blow moulding operation of a packaging material as claimed in any of Claims 1 to 7.

AB Tetra Pak

PATENT DEPARTMENT

Patent- och Registreringsverket Box 5055 102 42 STOCKHOLM

Your reference PCT/SE99/00843 Our reference TP 1281-WO

Date 10 May,2000

International Patent Application No. PCT/SE99/00843

In response to the first written opinion in re of the above-identified International Application we submit herewith a new set of claims together with arguments and comments as follow.

New claim 1 corresponds essentially to previous claims 1 and 2, and new claims 2-8 correspond to each one of previous claims 3-9.

The new claims have thus been drafted in conformity with said first written opinion and should therefore define the present invention in a patentable manner in view of the cited documents D1 and D2.

We look forward to receiving a positive preliminary examination report based upon the new claims as submitted herewith.

Yours sincerely

AB TETRA PAK
Patept Department

Håkan Sundell

Encl. new claims in triplicate

AB Tetra Pak

Ruben Rausings gata, S-221 86 Lund, Sweden Telephone +46 46 36 10 00. Telefax +46 46 13 79 23

Reg. No.: 556050-0398

Thedema	ndmustbefileddirectlywithi	the competent International Preliminary Examining Authority or, if two or more Authorities are competen
with the c	one chosen by the applicant.	The full name or two-letter code of that Authority may be indicated by the applicant on the line below
IPEA/_	SE	

D	T
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CHAPTER II

DEMAND

under Article 31 of the Patent Cooperation Treaty:
The undersigned requests that the international application specified below be the subject of international preliminary examination according to the Patent Cooperation Treaty and hereby elects all eligible States (except where otherwise indicated).

Identification of IPEA		Date of receipt of D	DEMAND
Box No. I IDENTIFICATION OF T	HE INTERNATIONAL	APPLICATION	Applicant's or agent's file reference TP 1281
International application No.	International filing date	(day/month/year)	(Earliest) Priority date (day/month/year)
PCT/SE99/00843	18-05-199	9	22-05-1998
Title of invention A packaging material for light-se			roduced from the
Box No. II APPLICANT(S)		·	
Name and address: (Familynamefollowedby The address must include p TETRA LAVAL HOLDINGS Av. Général-Guisan 7 CH-1009 PULLY Switzerland	& FINANCE SA		Telephone No.: 41 217 29 22 11 Facsimile No.: 41 217 29 27 59 Teleprinter No.: 041 21 45 58 11
State (that is, country) of nationality: CH		State (that is, count S w	ry)ofresidence: iitzerland
Name and address: (Familyname followed by Bergholtz, Lars Rapsvägen 38 S-263 54 HÖGANÄS Sweden	givenname; for a legal entity, fi	ull official designation. Ti	ne address must include postal code and rame of coun
State (that is, country) of nationality:	E	State (that is, count	ry) of residence: i we de n
Name and address: <i>(Familynamefollowedby</i> Klint, Lotta 38 Jamison Drive York, Pa 17402 USA	givenname; for a legal entity.f	full official designation. T	he address must include postal code and name of coun
State (that is, country) of nationality:	SE	State (that is, coun	rry) of residence: USA

the site

Sheet No. ...2

International application No. PCT/SE99/00843

Box No. III AGENT OR COMMON REPRESENTATIVE; OR ADDRESS FOR CORRESPONDENCE			
The following person is X agent common representative			
and X has been appointed earlier and represents the applicant(s) also for international preliminary examination.			
is hereby appointed and any earlier appointment of (an) agent(s)/common represen	tative is hereby revoked.		
is hereby appointed, specifically for the procedure before the International Prelimin	nary Examining Authority, in addition to		
the agent(s)/common representative appointed earlier.			
Name and address: (Family name followed by given name; for a legal entity, full official designation. The address must include postal code and name of country.)	Telephone No.:		
Sundell, Håkan	046-36 22 97		
AB TETRA PAK	Facsimile No.:		
Ruben Rausings gata SE-221 86 Lund, Sweden	046-13 79 23		
	Teleprinter No.:		
	32140 TPLUND		
Address for correspondence: Mark this check-box where no agent or common re space above is used instead to indicate a special address to which correspondence	presentative is/has been appointed and the should be sent.		
Box No. IV BASIS FOR INTERNATIONAL PRELIMINARY EXAMINATION	,		
Statement concerning amendments:*			
1. The applicant wishes the international preliminary examination to start on the basis of:			
the international application as originally filed			
the description as originally filed			
as amended under Article 34			
the claims as originally filed			
as amended under Article 19 (together with any accompanying statement)			
as amended under Article 34			
the drawings as originally filed			
as amended under Article 34			
2. The applicant wishes any amendment to the claims under Article 19 to be considered as reversed.			
The applicant wishes the start of the international preliminary examination to be postponed until the expiration of 20 months			
from the priority date unless the International Preliminary Examining Authority receives a copy of any amendments made under Article 19 or a notice from the applicant that he does not wish to make such amendments (Rule 69.1(d)). (This checkbox may be marked only where the time limit under Article 19 has not yet expired.)			
• Where no check-box is marked, international preliminary examination will start on the basis of the international application as originally filed or, where a copy of amendments to the claims under Article 19 and/or amendments of the international application under Article 34 are received by the International Preliminary Examining Authority before it has begun to draw up a written opinion or the international preliminary examination report, as so amended.			
Language for the purposes of international preliminary examination:	nglish		
X which is the language in which the international application was filed.			
which is the language of a translation furnished for the purposes of international search.			
which is the language of publication of the international application.			
which is the language of the translation (to be) furnished for the purposes of inter	national preliminary examination.		
Box No. V ELECTION OF STATES	,		
The applicant hereby elects all eligible States (that is, all States which have been designated	ted and which are bound by Chapter II of		
the PCT)			
excluding the following States which the applicant wishes not to elect:			

Sheet No. . 3.

International application No. PCT/SE99/00843

Box No. VI CHECK LIST				
The demand is accompanied by the following elements, in the language referred to in Box No. IV, for the purposes of international preliminary examination: For International Preliminary Examining Authority use only received not received				
1. translation of international application	:	sheets		
2. amendments under Article 34	:	sheets		
copy (or, where required, translation) of amendments under Article 19	:	sheets		
 copy (or, where required, translation) of statement under Article 19 	:	sheets		
5. letter	:	sheets		
6. other (specify)	:	sheets		
The demand is also accompanied by the item(s) ma	arked below:			
1. X fee calculation sheet		4. statement ex	kplaining lack of signa	ture
2. separate signed power of attorney			und or amino acid sequ adable form	ence listing in
3. copy of general power of attorney; reference number, if any:		6. other (special		
Box No. VII SIGNATURE OF APPLICANT,	AGENT OR C	OMMON REPRESE	NTATIVE	
Next to each signature, indicate the name of the person signing and the capacity in which the person signs (if such capacity is not obvious from reading the demand). Håkan Sundell				
For Internation	onal Preliminary	Examining Authority (ise only	
1. Date of actual receipt of DEMAND:				
Adjusted date of receipt of demand due to CORRECTIONS under Rule 60.1(b):				
The date of receipt of the demand is AFTER the expiration of 19 months from the priority date and item 4 or 5, below, does not apply. The applicant has been informed accordingly.				
4. The date of receipt of the demand is WITHIN the period of 19 months from the priority date as extended by virtue of Rule 80.5.				
5. Although the date of receipt of the demand is after the expiration of 19 months from the priority date, the delay in arrival is EXCUSED pursuant to Rule 82.				
For International Bureau use only				
Demand received from IPEA on:				

PCT

FEE CALCULATION SHEET

Annex to the Demand for international preliminary examination

International application No. PCT/SE99/00843	For International Preliminary Examining Authority use only
Applicant's or agent's TP 1281	Date stamp of the IPEA
Applicant TETRA LAVAL HOLDINGS & FINANCE	SA
Calculation of prescribed fees	
Preliminary examination fee	4.200: P
2. Handling fee (Applicants from certain States are entitled to a reduction of 75% of the handling fee. Where the applicant is (or all applicants are) so entitled, the amount to be entered at H is 25% of the handling fee.)	1.250: Н
3. Total of prescribed fees Add the amounts entered at P and H and enter total in the TOTAL box	5.450: TOTAL
Mode of Payment	
X authorization to charge deposit cash account with the IPEA (see below)	
cheque revenue sta	mps
postal money order coupons	
bank draft other (spec	i5v):
Deposit Account Authorization (this mode of payment may not be of The IPEA/ SE X is hereby authorized to charge the to	available at all IPEAs) tal fees indicated above to my deposit account.
(this check-box may be marked only if authorized to charge any deficiency my deposit account.	the conditions for deposit accounts of the IPEA so permit) is hereby or credit any overpayment in the total fees indicated above to
164020 17 November	, 1999 Miha LM
Deposit Account Number Date (day/month/year)	Signature Håkan Sundell

PATENT COOPERATION TREATY

From the INTERNATIONAL PRELIMINARY EXAMINING AUTHORITY

To: Sundell, Håkan AB TETRA PAK		PCT	
Ruben Rausings gata		'	WRITTEN OPINION
SE-221 86 Lund, Swede	n		(PCT Rule 66)
		Date of mailing	
		Date of mailing (day/month/year)	0 4 - 05- 2000
Applicant's or agent's file reference	- - -	REPLY DUE	within 45 days
TP 1281	T]	from the above date of mailing
International application No.	International filing date	(dav/month/year)	Priority date (day/month/year)
PCT/SE99/00843	18.05.1999		22.05.1998
International Patent Classification (IPC) o		on and IPC7	
B 32 B 27/20, B 65 D	65/20		
Applicant			
Tetra Laval Holdings	& Finance SA	et al	
			ional Preliminary Examining Authority.
This opinion contains indications re	lating to the following iter	ns:	
I Basis of the report	•		
II Priority			·
III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability			nd industrial applicability
IV Lack of unity of invention			
V Reasoned statement under Rule 66.2(a)(ii) with regard to novelty, inventive step or industrial applicability; citati and explanations supporting such statement			entive step or industrial applicability; citations
VI Certain documents cited			
VII Certain defects in the i			
VIII Certain observations or	n the international applicat	tion	
3. The applicant is hereby invited to re	ply to this opinion.	_	
When? See the time limit indicate grant an extension, see R		nay, before the expira	tion of that time limit, request this Authority to
How? By submitting a written reply, accompanied, where appropriate, by amendments, according to Rule 66.3. For the form and the language of the amendments, see Rules 66.8 and 66.9.			
Also For an additional opportunity to submit amendments, see Rule 66.4. For the examiner's obligation to consider amendments and/or arguments, see Rule 66.4bis. For an informal communication with the examiner, see Rule 66.6.			
If no reply is filed, the internations	al preliminary examination	n report will be establ	ished on the basis of this opinion.
4. The final date by which the international preliminary examination report must be established according to Rule 69.2 is: 22.09.2000			.2000
Name and mailing address of the IPEA/S		Authorized officer	
Patent- och registreringsverket Box 5055	Telex 17978	1	
S-102 42 STOCKHOLM	PATOPEG-S	Hélène Eri	
Facsimile No. 08-667 72 88		Telephone No. 08-	102 23 00

WRITTEN OPINION

International application No.

PCT/SE99/00843

I. Basis of the report		
This opinion has been drawn invitation under Article 14 are	on the basis of (Substitute sh e referred to in this opinion a	neets which have been furnished to the receiving Office in response to an as "originally filed".):
the international	application as originally file	ed.
the description,	pages	, as originally filed,
	pages	_ , filed with the demand,
	pages	_ , filed with the letter of
the claims,	Nos.	, as originally filed,
		_ , as amended under Article 19,
	Nos.	_ , filed with the demand,
	Nos.	, filed with the letter of
the drawings,	sheets/fig	_ , as originally filed,
	sheets/fig	_ , filed with the demand
	sheets/fig	, filed with the letter of
2. The amendments have resulte	ed in the cancellation of:	
the description,		
the claims,	Nos.	-
LJ		
the drawings,	sheets /fig	_
This opinion has been	n established as if (some of)	the amendments had not been made, since they have been considered to go
beyond the disclosure	e as filed, as indicated in the	supplemental Box (Rule 70.2(c)).
4 Additional charactions if m		•
4. Additional observations, if n	iecessary:	·
		•
,		

WRITTEN OPINION

International application No. PCT/SE99/00843

V.	Reasoned statement under Rule 66.2(a)(ii) with regard to novelty, inventive step or industrial applicability;
	citations and explanations supporting such statement

Novelty (N)	Claims	2-9	YES
	Claims	1	NO NO
Inventive step (IS)	Claims	1-9	YES
	Claims		NO NO
Industrial applicability (IA)	Claims	1-9	YES
	Claims		NO NO

2. Citations and explanations

The claimed invention relates to a packaging material and a package, produced from the packaging material, for light-sensitive products. The packaging material includes at least one layer of plastic filled with 3-80 wt% mineral particles and 0,04-1 wt% carbon black. The plastic consists preferable of a high-density polyethylene or a copolymer of ethylene and propylene.

The most relevant documents cited in the search report are the following:

D1 JP 4 173 134 A D2 EP 353 496 A1

D1 relates to a light-blocking bottle for milk. It comprises 100 wt parts polyester, 2,5-2,6 wt parts light-reflective pigment, e.g. TiO2, and 0,005-0,015 wt parts light-absorptive pigment, e.g. carbon black. The subject matter of claim 1 does not differ from what is disclosed in D1. Therefore, this claim is considered to lack novelty.

The subject matter of claims 2-9 differs from the disclosure of D1 concerning the amount of mineral particles and carbon black. Also the type of plastic used differs.

Regarding claims 2-9, D1 only discloses the general state of the art, which is not considered to be of particular relevance. The claimed invention according to claims 2-9 is considered to be novel, have inventive step and industrial applicability.

.../...

WRITTEN OPINION

International application No.

PCT/SE99/00843

Supplemental Box

(To be used when the space in any of the preceding boxes is not sufficient)

Continuation of: V

D2 relates to a flexible material for the manufacture of liquid-tight packing containers. It comprises one or more layers of mineral filled thermoplastics laminated to one another. However, D2 mentions nothing about adding small amounts of carbon black to achieve a synergic light-barrier effect. In view of the above, D2 only discloses the general state of the art, which is not considered to be of particular relevance.

1904/2008 40

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

CORRECTED VERSION

RECEIVED7

MAR 2 9 2001

(19) W.rld Intellectual Pr. perty Organization International Bureau

(43) International Publication Date

2 December 1999 (02.12.1999)



PCT

(10) International Publication Number WO 99/61245 A1

(51) International Patent Classification⁶: B65D 65/20

B03B 03/20

B32B 27/20,

(21) International Application Number:

PCT/SE99/00843

(22) International Filing Date:

18 May 1999 (18.05.1999)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data: 9801809-6

22 May 1998 (22.05.1998)

(71) Applicant (for all designated States except US): TETRA LAVAL HOLDINGS & FINANCE S.A. [CH/CH]; Avenue Général-Guisan 70, CH-1009 Pully (CH).

(72) Inventors; and

- (75) Inventors/Applicants (for US only): BERGHOLTZ, Lars [SE/SE]; Rapsvägen 38, S-263 54 Höganäs (SE). KLINT, Lotta [SE/SE]; Klockaregatan 2b, S-252 49 Helsingborg (SE).
- (74) Agent: SUNDELL, Håkan; AB Tetra Pak, Patent Dept., Ruben Rausings gata, S-221 86 Lund (SE).

(81) Designated States (national): AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZA, ZW.

(84) Designated States (regional): ARIPO patent (GH, GM, KE, LS, MW, SD, SL, SZ, UG, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG).

Published:

- With international search report.
- (48) Date of publication of this corrected version:

1 March 2001

(15) Information about Correction:

see PCT Gazette No. 09/2001 of 1 March 2001, Section II

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

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(54) Title: A PACKAGING MATERIAL AND PACKAGES PRODUCED FROM THE MATERIAL FOR LIGHT-SENSITIVE PRODUCTS

(57) Abstract: The disclosure relates to a packaging material and packages, for example bottles, produced from the packaging material, for light-sensitive products. The packaging material (10) includes at least one layer (11) of mineral-filled plastic which, for light barrier elevating purposes, also includes particles (11c) of carbon black. The material (10) which is preferably of triple-layer type, has the mineral-filled layer (11) containing carbon black disposed between outer, surrounding layers (12 and 13) of plastic which is preferably the same plastic as the plastic in the interjacent layer (11). In order to conceal the interjacent layer (11) containing carbon black, at least one, but preferably both, of the outer plastic layers may incorporate white pigment or other white colouring agent, preferably titanium dioxide (TiO₂). Bottles are produced from the packaging material (10) by a combined extrusion and blow moulding operation in a per se known manner using conventional process equipment.

O 99/61245 A1

PATENT COOPERATION TREATY

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference TP 1281	FOR FURTHER ACTION see Notification of Transmittal of International Search R (Form PCT/ISA/220) as well as, where applicable, item 5		Transmittal of International Search Report O) as well as, where applicable, item 5 below.			
International application No.	International filing date (day/month/year)		(Earliest) Priority Date (day month year)			
PCT/SE 99/00843	18 May 1999		22 May 1998			
Applicant						
Tetra Laval Holdings & Finance SA et al						
This international search report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau.						
This international search report cons	ists of a total of3	_ sheets.				
X It is also accompanied by a	copy of each prior art d	ocument cited in th	nis report.			
1. Certain claims were found unsearchable (See Box I).						
2. Unity of invention is lacking	g (See Box II).					
The international application contains disclosure of a nucleotide and/or amino acid sequence listing and the international search was carried out on the basis of the sequence listing						
	filed with the international application.					
furnished by the applicant separately from the international application,						
	but not accom matter going b	panied by a statem eyond the disclosur	ent to the effect that it did not include re in the international application as filed.			
	ranscribed by this Author	rity.				
4. With regard to the title, X	he text is approved as su	bmitted by the app	licant.			
	he text has been establish	ed by this Authoric	ty to read as follows:			
5. With regard to the abstract,						
the text is approved as submitted by the applicant. the text has been established, according to Rule 38.2(b), by this Authority as it approved the text has been established.						
in	Box III. The applicant a ational search report, sub	may, within one me	onth from the date of mailing of this inter-			
6. The figure of the drawings to be	6. The figure of the drawings to be published with the abstract is:					
	as suggested by the application		None of the figures.			
	pecause the applicant fail	ed to suggest a figu				
	pecause this figure better	characterizes the in	nvention.			

INTERNATIONAL SEARCH REPORT

International application No.

PCT/SE 99/00843

A. CLASSIFICATION OF SUBJECT MATTER IPC6: B32B 27/20, B65D 65/20 According to International Patent Classification (IPC) or to both national classification and IPC B. FIELDS SEARCHED Minimum documentation searched (classification system followed by classification symbols) IPC6: B32B, B65D, C08K, C08L Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched SE,DK,FI,NO classes as above Electronic data base consulted during the international search (name of data base and, where practicable, search terms used) C. DOCUMENTS CONSIDERED TO BE RELEVANT Relevant to claim No. Category* Citation of document, with indication, where appropriate, of the relevant passages JP 4173134 A (DAINIPPON PRINTING CO LTD) 1 Х 1992-06-19 (abstract) World Patents Index (online). U.K.: Derwent Publications, Ltd. (retrieved on 1999-08-27). Retrieved from: EPO WPI database. DW9231, Accession no. 92-255458 2-11 Y 2-11 EP 0353496 A1 (TETRA PAK FINANCE & TRADING S.A.), Υ 7 February 1990 (07.02.90), abstract Further documents are listed in the continuation of Box C. See patent family annex. "T" later document published after the international filing date or priority Special categories of cited documents: late and not in conflict with the application but cited to understand "A" document defining the general state of the art which is not considered the principle or theory underlying the invention to be of particular relevance "X" document of particular relevance: the claimed invention cannot be "E" erlier document but published on or after the international filing date considered novel or cannot be considered to involve an inventive document which may throw doubts on priority claim(s) or which is step when the document is taken alone cited to establish the publication date of another citation or other "Y" document of particular relevance: the claimed invention cannot be special reason (as specified) considered to involve an inventive step when the document is "O" document referring to an oral disclosure, use, exhibition or other combined with one or more other such documents, such combination being obvious to a person skilled in the art document published prior to the international filing date but later than the priority date claimed "&" document member of the same patent family Date of mailing of the international search report Date of the actual completion of the international search n 1 -09- 1999 27 August 1999 Authorized officer Name and mailing address of the ISA/ Swedish Patent Office Box 5055, S-102 42 STOCKHOLM Jack Hedlund/Els Telephone No. +46 8 782 25 00 Facsimile No. + 46 8 666 02 86

INTERNATIONAL SEARCH REPORT

International application No.

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C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT				
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